

prio 150EC circ. duct fan

Axial circular duct fan, <125W Item Number: 78184 Variant: 230V 1~ 50/60Hz



EC-motors, high level of efficiency Low SFP values 100% speed controllable Integrated motor protection Can be installed in any position Compact design Low sound level Potentiometer included for ease of commissioning EC fans are intelligent devices using integrated mot

EC fans are intelligent devices using integrated motor electronics, ensuring that the motor always runs at optimal load. With EC motors the proportion of energy utilized effectively is higher, which as a result reduces the energy usage considerably, compared with AC motors.

Another special feature of EC fans is their energy-saving potential not only at full load, but especially when speed controlled, i.e. at part load. When operating at part-load, the energy used is much lower than with an asynchronous motor of equivalent output.



Reduced energy usage guarantees a drop in operating costs.

The prioAir series is designed for installation in ducts. The prioAir models have 25 mm long spigot connections in acc. with EN 1506:1997. The fans have aerodynamically optimized impellers and guide vanes. Motor protection is integrated in the electronics of the motor. The air tight casing (tightness class C in acc. with EN12237:2003) is manufactured from special composite material.

The mounting clamp facilitates easy installation and removal, and prevents the transfer of vibrations to the duct. Mounting bracket to the wall or ceiling as accessory. For installation in damp locations we recommend to use a run-on timer. The fans are delivered with a pre-wired potentiometer (0-10 V) that allowes you to easily find the required working point.

Technical parameters

nan		
nan	230	V
Frequency	50; 60	Hz
Phase(s)	1~	
Input power	76	W
Input current	0.642	А
Impeller speed	4,330	r.p.m.
Air flow	max 0.221	m³/s
Temperature of transported air	max 55	°C
Max temperature of transported air, when speed controlled	55	°C

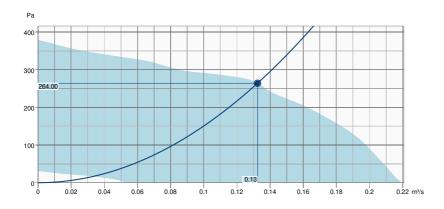
Sound data		
Sound pressure level at 3m (20m ² Sabin)	48	dB(A)
Protection/Classification		
Enclosure class, motor	IP44	
Insulation class	В	

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Data according to ErP		
ErP ready	nan	
Dimensions and weights		
Duct dimension; Circular, inlet	150	mm
Duct dimension; Circular, outlet	150	mm
Weight	1.9	kg
Others		
Duct connection type	Circular	
Motor type	EC	

Performance

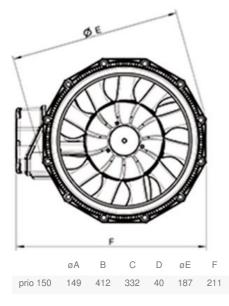
Performance curve

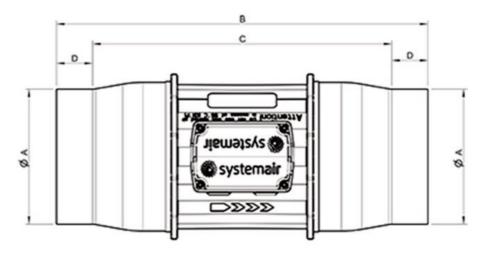


Hydraulic data	
Required air flow	0.13 m³/s
Required static pressure	264 Pa
Working air flow	0.13 m³/s
Working static pressure	264 Pa
Air density	1.204 kg/m³
Power	75.6 W
Fan control - RPM	4374 rpm
Current	0.64 A
SFP	0.571 kW/m³/s
Control voltage	10.0 V
Supply voltage	230 V

Sound power level		63	125	250	500	1k	2k	4k	8k	Total
Inlet	dB(A)	43	58	75	69	68	68	64	54	78
Outlet	dB(A)	49	61	75	73	69	69	65	55	79
Surrounding	dB(A)	20	10	54	39	50	51	42	27	57
Sound pressure level at 3m (20m ² Sabine)	dB(A)	-	-	-	-	-	-	-	-	50
Sound pressure level at 3m free field	dB(A)	-	-	-	-	-	-	-	-	36

Dimension





Wiring

